

IN THE CLAIMS:

The claims now read as follows:

Claims 1-8 (canceled)

19. (Currently Amended) A hearing aid comprising
an input transducer for transforming an acoustic input signal into a first electrical signal,
a signal processor for processing the first electrical signal to produce a second electrical
signal based on the first electrical signal,
an output transducer for converting the second signal into sound,
a probe for determining a signal parameter,
means for connecting said probe to at a first point in a signal path of the hearing aid
extending through said input transducer, said signal processor and said output transducer,
a test manager adapted to control a state of the hearing aid, to receive an input from said
probe and to determine any defect in the hearing aid, and
activation means for selective activation of operator activation in order to cause said test
manager to initiate a test procedure.

20. (Previously Added) The hearing aid according to claim 19, wherein said test
manager is adapted to disconnect said input transducer from the signal path and to activate said
probe means for determination of the signal parameter in order that the noise level generated by
input circuitry of the hearing aid may be determined.

21. (Currently Amended) The hearing aid according to claim 19, comprising a test signal generator controlled by said test manager and adapted for ~~injecting~~ injecting a test signal at a second point in the signal path.

22. (Previously Added) The hearing aid according to claim 19, wherein said test manager is adapted to compare the input from said probe with desired parameters in order to establish whether the hearing aid has a defect.

23. (Previously Added) The hearing aid according to claim 21, wherein said second point is selected to achieve that the test signal effects the emission by said output transducer of a sound signal.

24. (Previously Added) The hearing aid according to claim 21, comprising a filter bank with bandpass filters for deriving from the first electrical signal a set of bandpass filtered derivatives of the first electrical signal, wherein said processor is adapted to generate the second electrical signal by individual processing of each of the bandpass filtered derivatives of the first electrical signal and adding together the processed electrical signals to provide the second electrical signal, and wherein said test manager is adapted to selectively connect said probe to the output of one of said bandpass filters.

25. (Previously Added) The hearing aid according to claim 24, wherein said test manager is adapted to connect said probe to the output of a bandpass filter tuned to pick the third harmonic of the output of said test signal generator for determination of harmonic distortion.

26. (Previously Added) The hearing aid according to claim 23, wherein said at least one input transducer is a telecoil input transducer, and wherein said output transducer is adapted to generate a magnetic field, that is picked up by said telecoil.

27. (Previously Added) The hearing aid according to claim 21, wherein said test manager is adapted to verify the gain of said signal processor.

28. (Previously Added) The hearing aid according to claim 27, wherein said test manager is adapted to verify the gain of said signal processor as a function of frequency.

29. (Previously Added) The hearing aid according to claim 21, wherein said test manager is adapted to verify the compression of said signal processor.

30. (Previously Added) The hearing aid according to claim 19, comprising an adaptive feedback canceller for suppression of acoustic feedback, and wherein said test manager is adapted to verify the operation of said adaptive feedback canceller.

31. (Previously Added) The hearing aid according to claim 19, wherein said activation means comprises a switch positioned at a housing of the hearing aid.

32. (Previously Added) The hearing aid according to claim 19, wherein said activation means comprises an interface adapted to receive commands from a remote control device adapted to operate the hearing aid.

33. (Previously Added) The hearing aid according to claim 19, wherein said activation means comprises an interface adapted to receive commands from a programming device adapted to program the hearing aid.

34. (Previously Added) The hearing aid according to claim 19, wherein said activation means comprises an interface adapted to receive commands from a fitting device for the hearing aid.

35. (Previously Added) The hearing aid according to claim 19, comprising a memory for storage of a reference value of a parameter.

36. (Previously Added) The hearing aid according to claim 19, comprising means for causing generation by said output transducer of a tone signal to alert the user that the hearing aid has a defect.

37. (Previously Added) The hearing aid according to claim 36, wherein said test manager is adapted to determining a specific type of defect, and comprising means for causing generation by said output transducer of a specific tone signal to alert the user that the hearing aid has a specific defect.

38. (Previously Added) The hearing aid according to claim 19, comprising at least two switches in said signal path for the selective determination of signal parameters at respective points of said signal path.

39. (Currently Amended) The hearing aid according to claim 21, comprising at least two switches in said signal path for the selective injecting of test signals at respective points of said signal path.

40. (Currently Amended) A hearing aid comprising
an input transducer for transforming an acoustic input signal into a first electrical signal,
a signal processor for processing the first electrical signal to produce a second electrical signal based on the first electrical signal,
an output transducer for converting the second signal into sound,
a probe for determining a signal parameter,

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means for connecting said probe to a selected at-a-first point in a signal path of the hearing aid extending through said input transducer, said signal processor and said output transducer,

a test signal generator adapted for injecting a test signal at a selected second point in the signal path of the hearing aid,

a test manager adapted to control a state of the hearing aid, to receive an input from said probe and to determine any defect in the hearing aid, and

activation means for selective activation of operator activation in order to cause said test manager to initiate a test procedure.

41. (Currently Amended) A hearing aid comprising
an input transducer for transforming an acoustic input signal into a first electrical signal,
a filter bank with bandpass filters for deriving from the first electrical signal a set of
bandpass filtered derivatives of the first electrical signal,
a signal processor for individual processing of each of the bandpass filtered derivatives of
the first electrical signal and adding together the processed electrical signals to provide a second
electrical signal based on the first electrical signal,
an output transducer for converting the second signal into sound,
a probe adapted for being selectively connected to the outputs of each one of said
bandpass filters for determining a respective signal parameter,
a test signal generator adapted for ~~inject~~injecting a test signal at a selected point in the
signal path of the hearing aid extending through said input transducer, said signal processor and
said output transducer,
a test manager adapted to control a state of the hearing aid, to receive an input from said
probe and to determine any defect in the hearing aid, and
activation means for ~~selective activation~~operator activation in order to cause said test
manager to initiate a test procedure.

42. (New) The hearing aid according to claim 23, wherein said test manager is
adapted to connect said probe to said input transducer.